IN THE CLAIMS

Please cancel claims 10-37, 48-83 and 87-118.

For the Examiner's convenience, all pending claims are included below.

1.   (Original) A system comprising:

a wavelet-based image processing path to enhance an input image in a wavelet domain; and

a print engine coupled to the processing path.

2.   (Original) The system defined in Claim 1 wherein the image processing path comprises:

a forward wavelet transform;

one or more wavelet-based processing blocks; and

an inverse wavelet transform.

3.   (Original) The system defined in Claim 2 wherein the forward wavelet transform comprises a critically sampled wavelet transform.

4.   (Original) The system defined in Claim 2 wherein the forward wavelet transform comprises an overcomplete wavelet transform.

5.   (Original) The system defined in Claim 2 wherein the forward wavelet transform comprises a Haar wavelet transform.

6.   (Original) A system defined in Claim 2 wherein the forward wavelet transform comprises a 5,3 wavelet transform.

7.   (Original) A system defined in Claim 2 wherein the forward wavelet transform comprises a 2,6 wavelet transform.

8.   (Original) A system defined in Claim 2 wherein the forward wavelet transform comprises a complex wavelet transform.

9.   (Original) A system defined in Claim 2 wherein the forward wavelet transform comprises a limited redundancy wavelet transform.

10-37 (Canceled)

38.   (Original) The system defined in Claim 1 further comprising an input operable to receive the input image from an external source and a scanner for generating the input image, wherein the input and the scanner are coupled to the image processing path.

39.   (Original) A method comprising:

processing an input image by enhancing the input image, including applying a forward wavelet transorm to create a plurality of coefficients and filtering coefficients with a coefficient domain operator in a wavelet domain; and

outputting a processed image.

40.   (Original) The method defined in Claim 39 further comprising:

applying one or more wavelet-based processing blocks to coefficients resulting from

applying the forward wavelet transform; and

applying an inverse wavelet transform.

41.   (Original) The method defined in Claim 40 wherein the forward wavelet

transform comprises a critically sampled wavelet transform.

42.   (Original) The method defined in Claim 40 wherein the forward wavelet

transform comprises an overcomplete wavelet transform.

43.   (Original) The method defined in Claim 40 wherein the forward wavelet

transform comprises a Haar wavelet transform.

44.   (Original) A system defined in Claim 40 wherein the forward wavelet transform

comprises a 5,3 wavelet transform.

45.   (Original) A system defined in Claim 40 wherein the forward wavelet transform

comprises a 2,6 wavelet transform.

46.   (Original) A system defined in Claim 40 wherein the forward wavelet transform

comprises a complex wavelet transform.

47.   (Original) A system defined in Claim 40 wherein the forward wavelet transform comprises a limited redundancy wavelet transform.

48-83 (Canceled)

84.   (Original) A method comprising:

applying a forward wavelet transform to image data:

performing denoising by thresholding coefficients generated by applying the forward wavelet transform;

rescaling coefficients by filtering coefficients after thresholding.

85.   (Original) The method defined in Claim 84 further comprising sampling the wavelet coefficients.

86.   (Original) The method defined in Claim 84 further comprising applying an inverse wavelet transform on filtered coefficients.

87-118 (Canceled)

119.   (Original) A copier having a wavelet-based image processing path for enhancing image data.

120.   (Original) A printer having a wavelet-based image processing path for enhancing image data.